



10/773/44

Claims:

1-20 (canceled)

RDez

21. (New) A method for hypothermia and rewarming of the cerebrospinal fluid in the brain comprising the steps of:

- (a) providing a heat-exchange ventricular catheter;
- (b) simultaneously with (a) providing a drainage ventricular catheter;
- (c) internally implanting the distal ends of the heat exchange and drainage catheters into the cerebral ventricle through a burr hole or twist drill; whereby the catheters are placed within the ventricle using ventricular catheter introducers anchored into a slit opening and perforated hole to the distal ends of the catheters respectively, the distal end of the catheter placed above the level of foramen Monro within the ventricle;
- (d) connecting the proximal end of the heat-exchange catheter connected to an infusion system;
- (e) providing an infusion system containing sterile physiologic solution being at a temperature other than that of the cerebrospinal fluid, wherein a sterile physiologic solution flows in a fluid line into the heat-exchange catheter, the sterile physiologic solution of known chemical constituents, and prepared to preserve cell metabolic energy stores;
- (f) providing an infusion pump programmed to deliver the sterile physiologic solution at a predetermined rate;
- (g) infusing the sterile physiologic solution directly infused into the cerebral ventricles;